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PATENT & TRADEMARK OFFICE

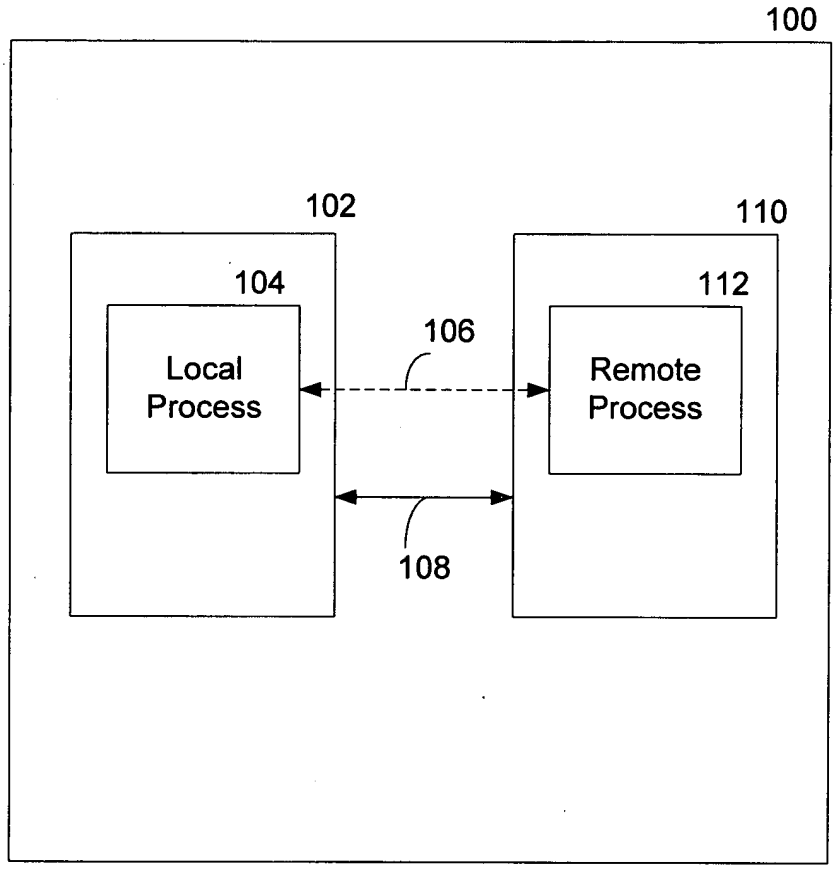

FIG. 1

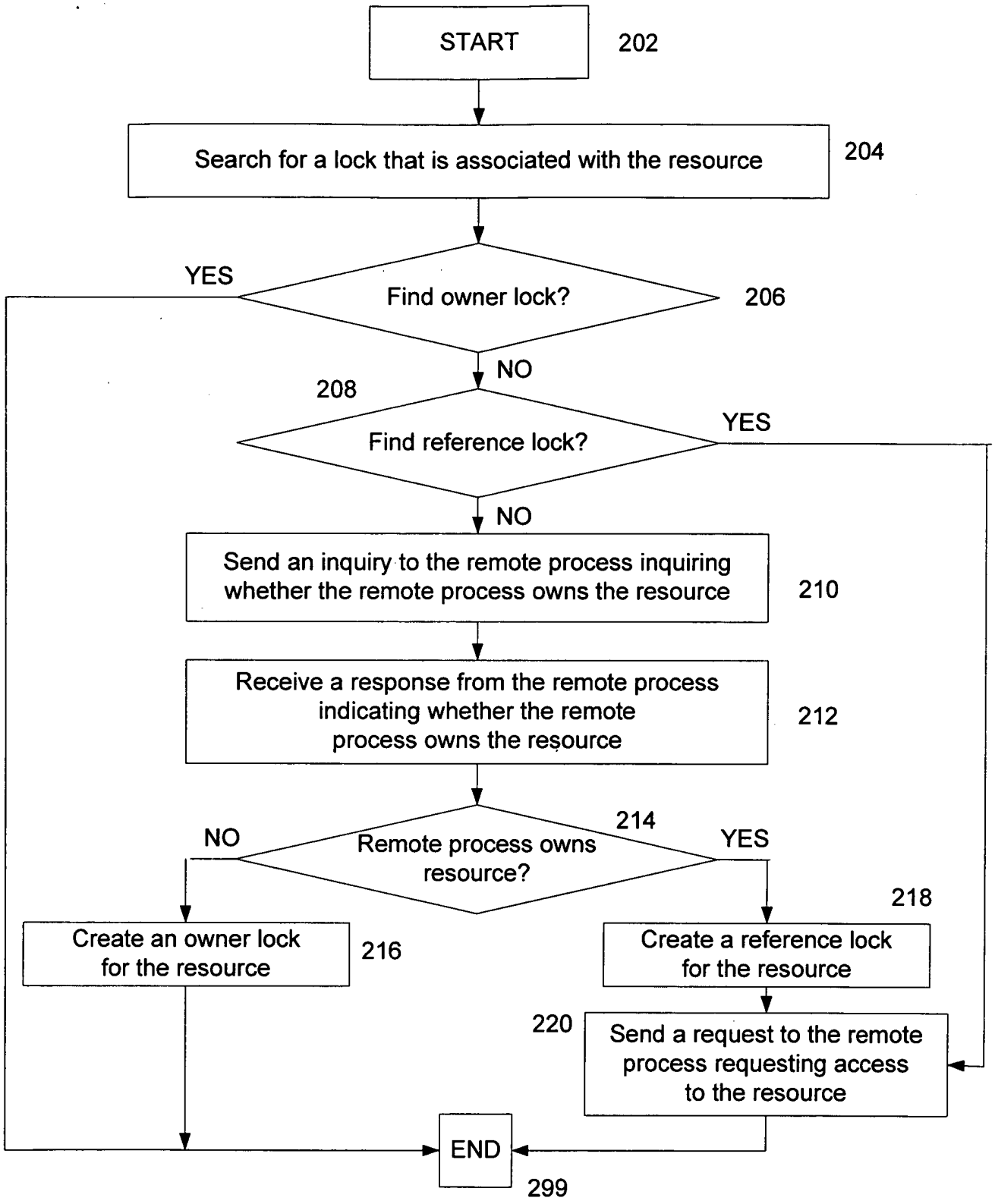

FIG. 2 (200) - ACCESSING A RESOURCE BY A PRIOR ART LOCAL PROCESS

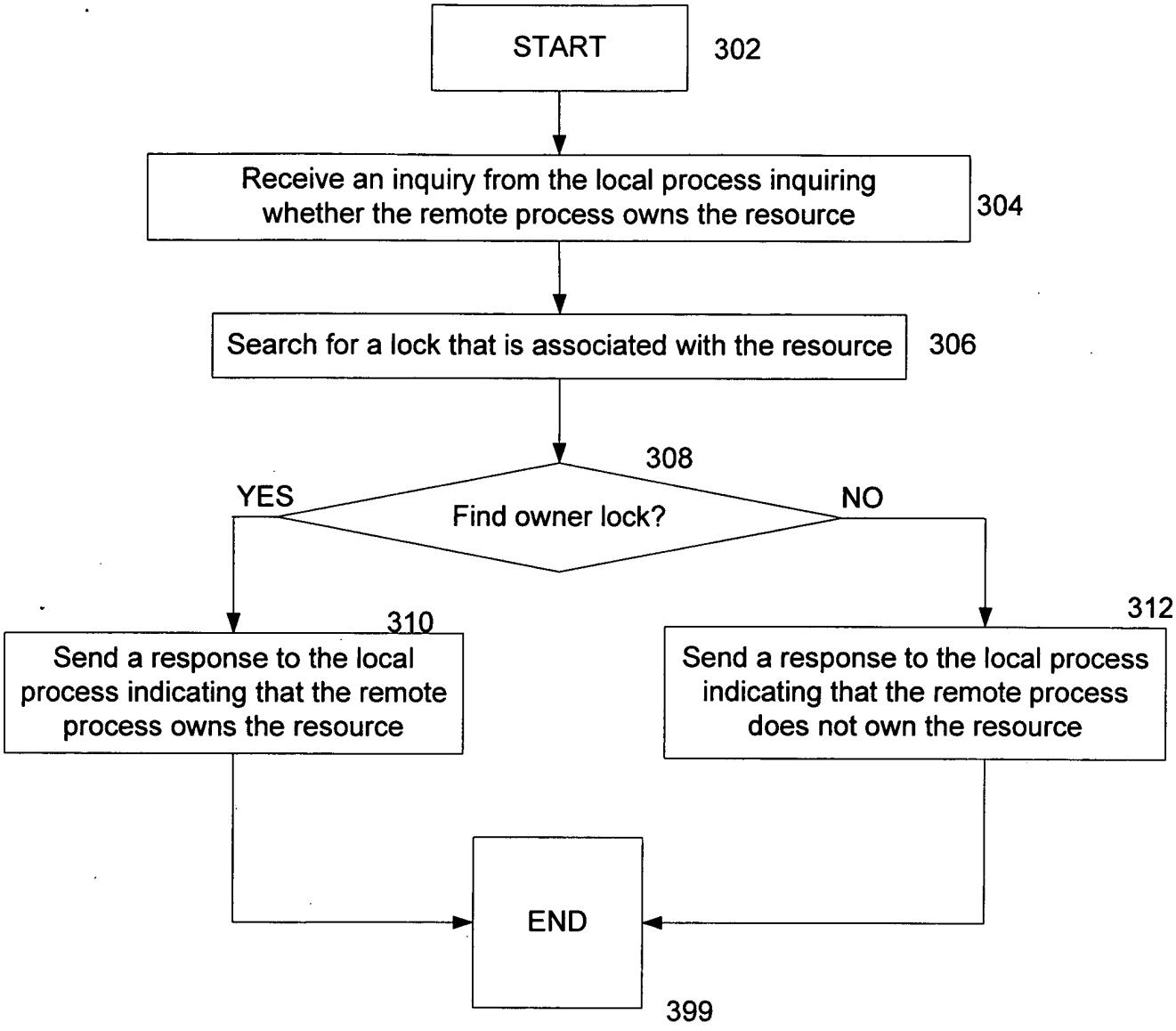

FIG. 3 (300) - PROCESSING AN INQUIRY BY A PRIOR ART REMOTE PROCESS

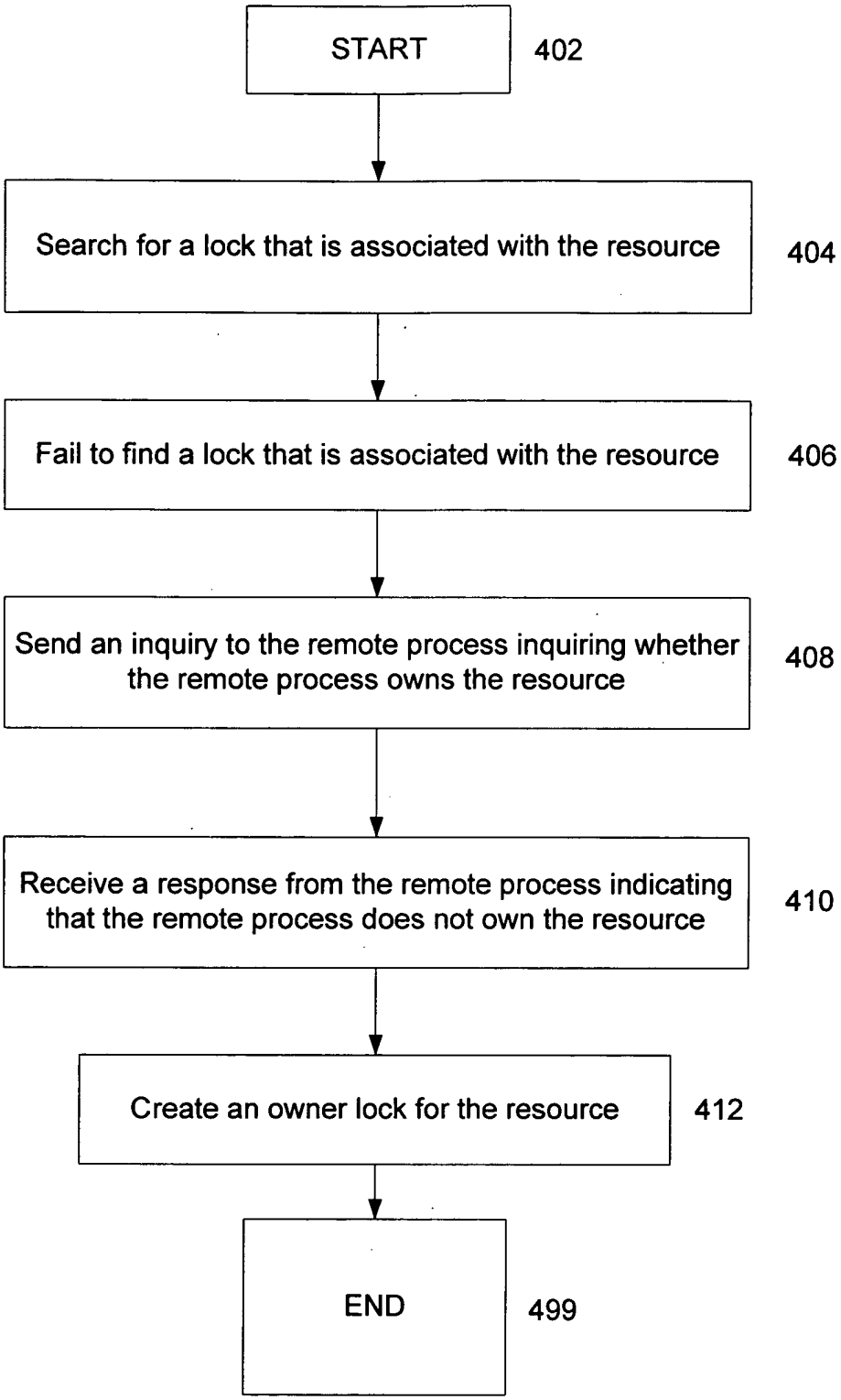

FIG. 4 (400) - CREATING AN OWNER LOCK BY A LOCAL PROCESS

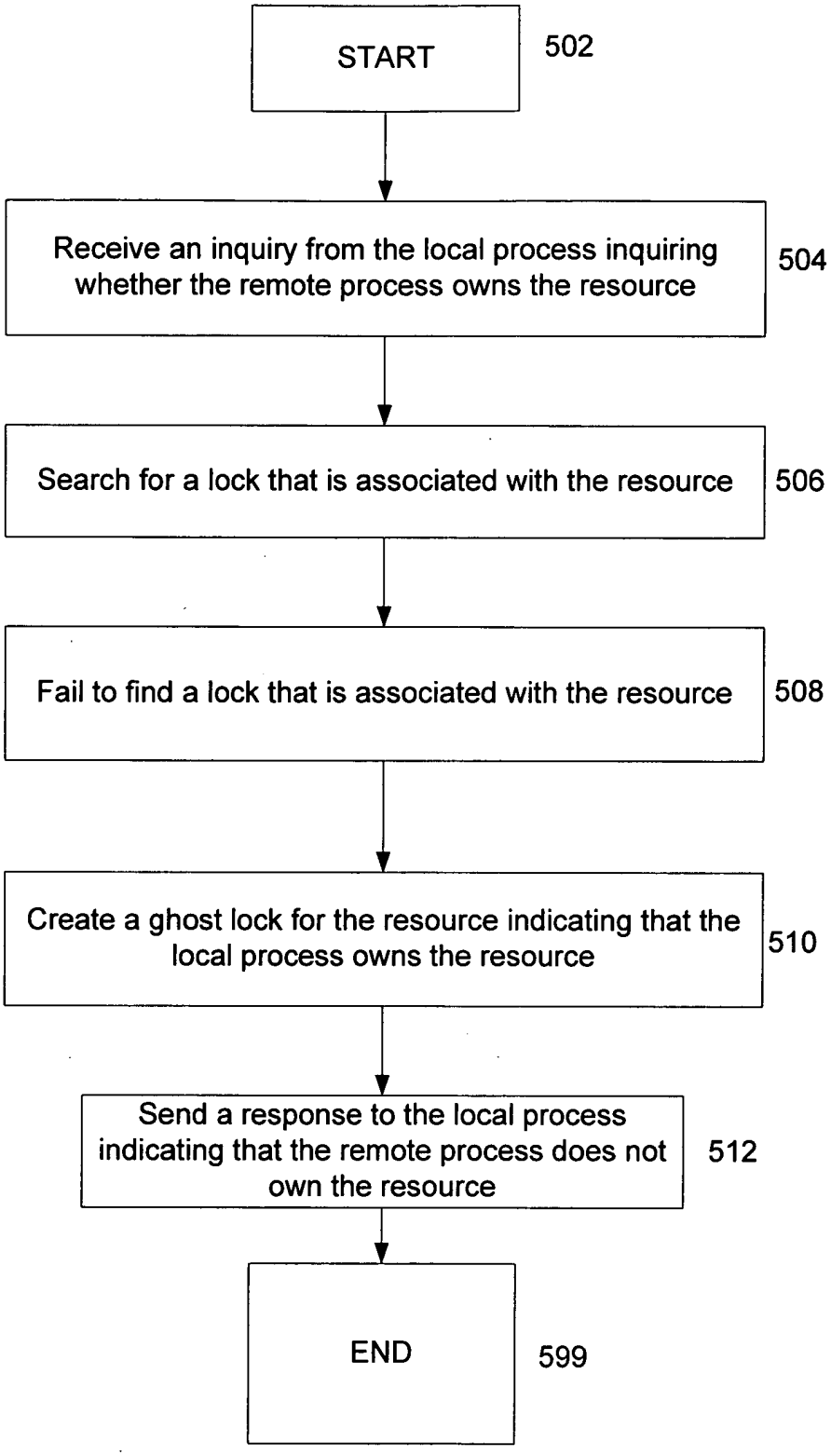

FIG. 5 (500) - CREATING A GHOST LOCK BY A REMOTE PROCESS

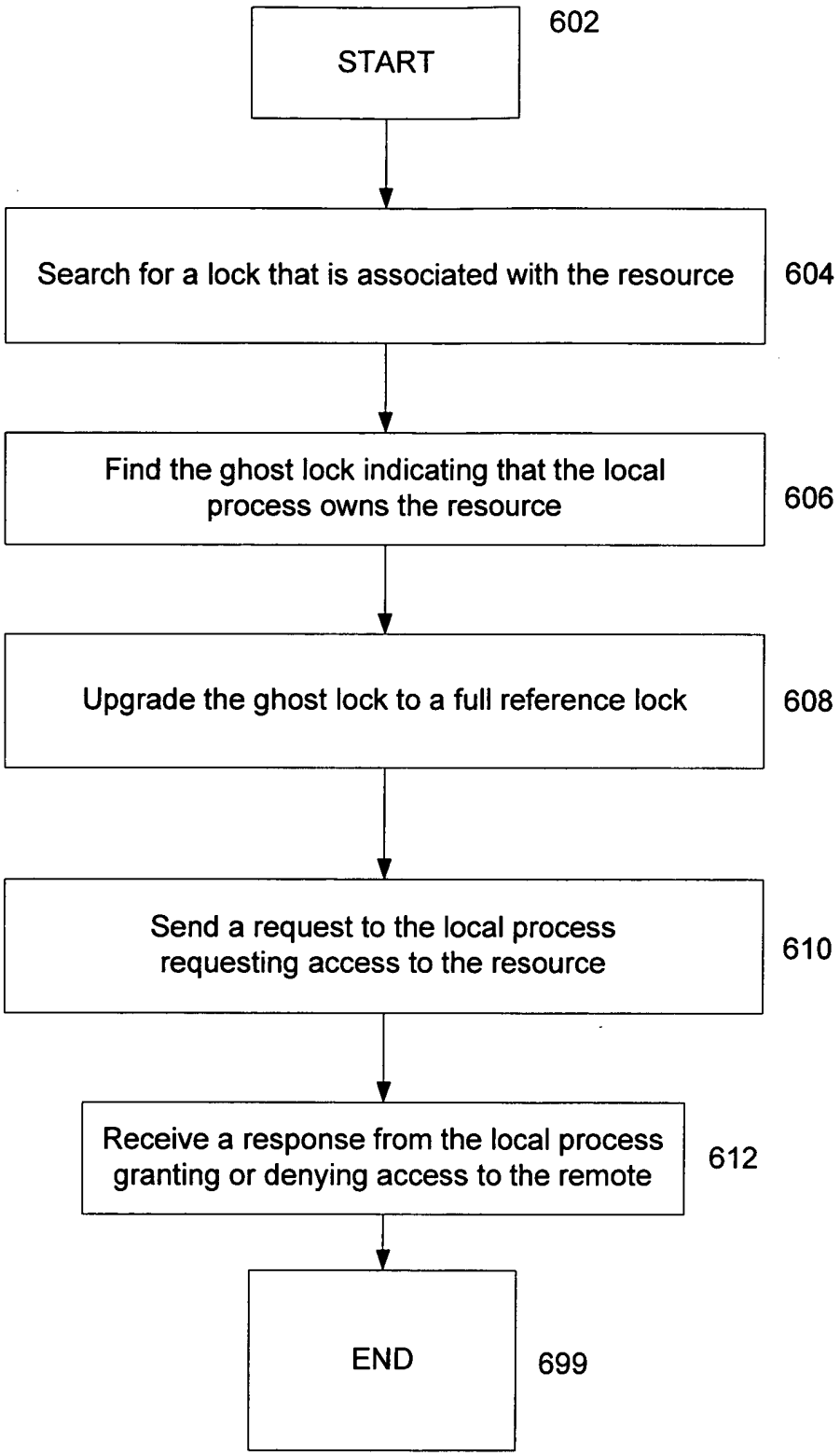

FIG. 6 (600) - UPGRADING A GHOST LOCK TO A REFERENCE LOCK

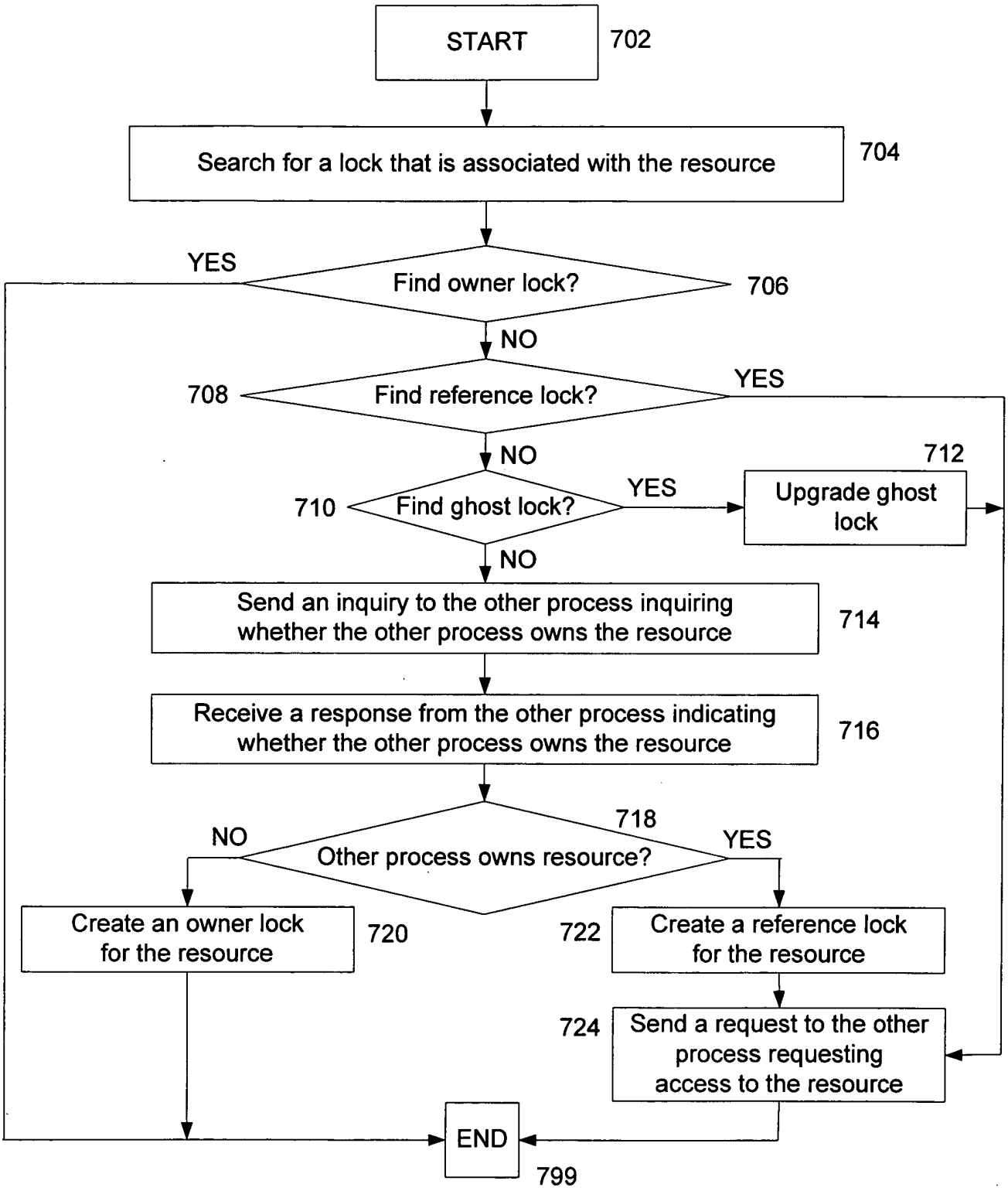

FIG. 7 (700) - ACCESSING A RESOURCE

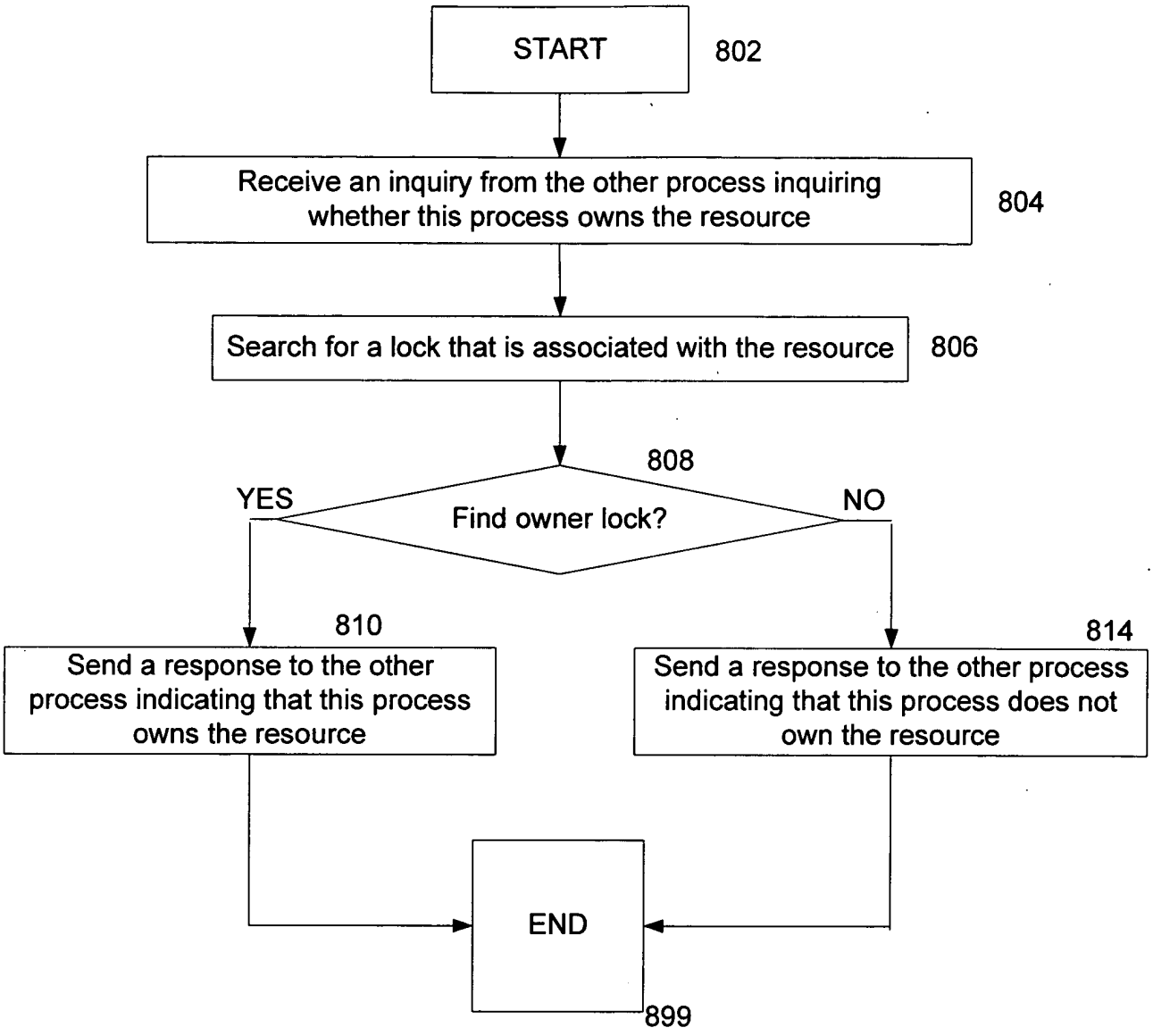

FIG. 8 (800) - PROCESSING AN INQUIRY

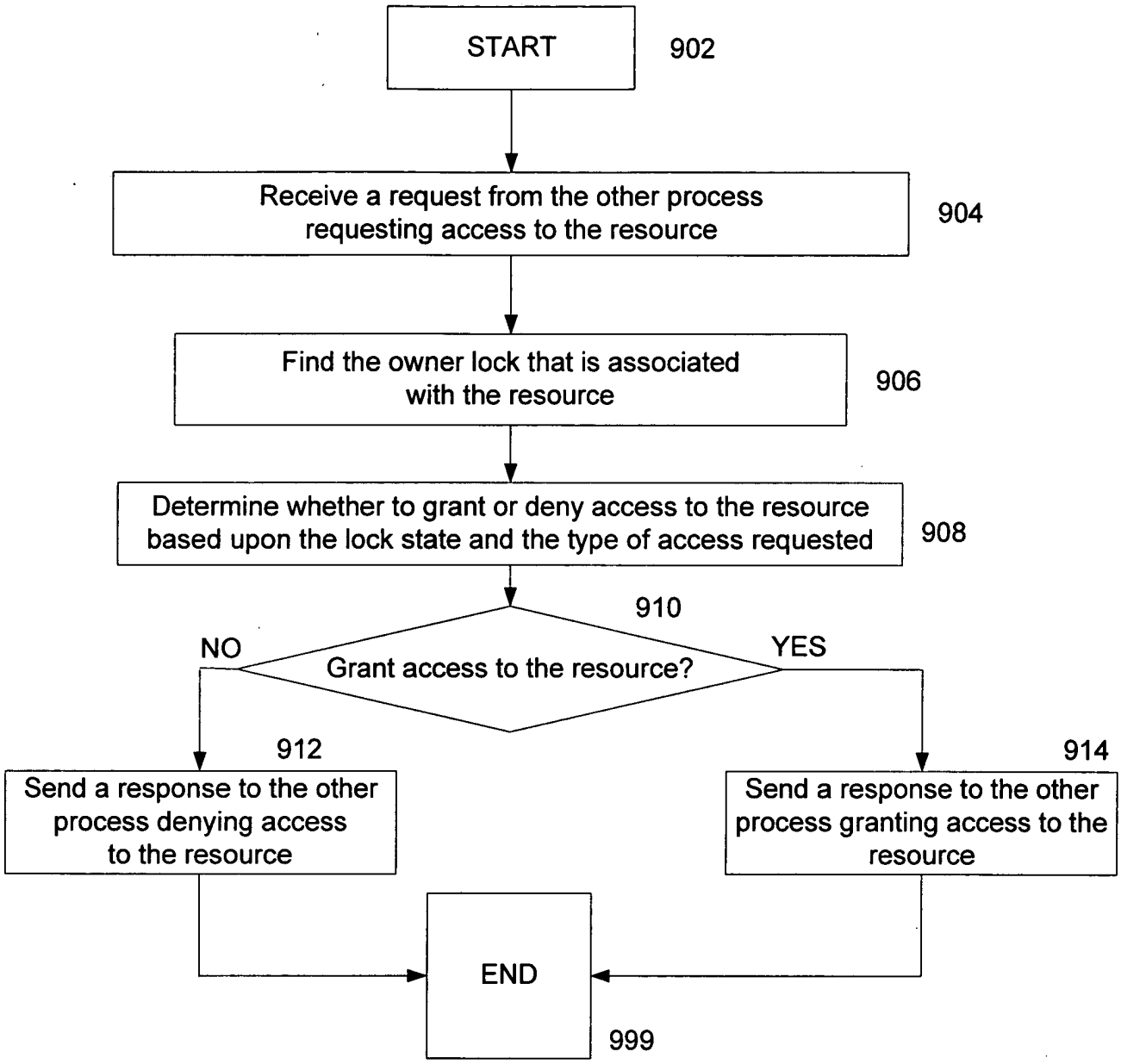

FIG. 9 (900) - PROCESSING A REQUEST

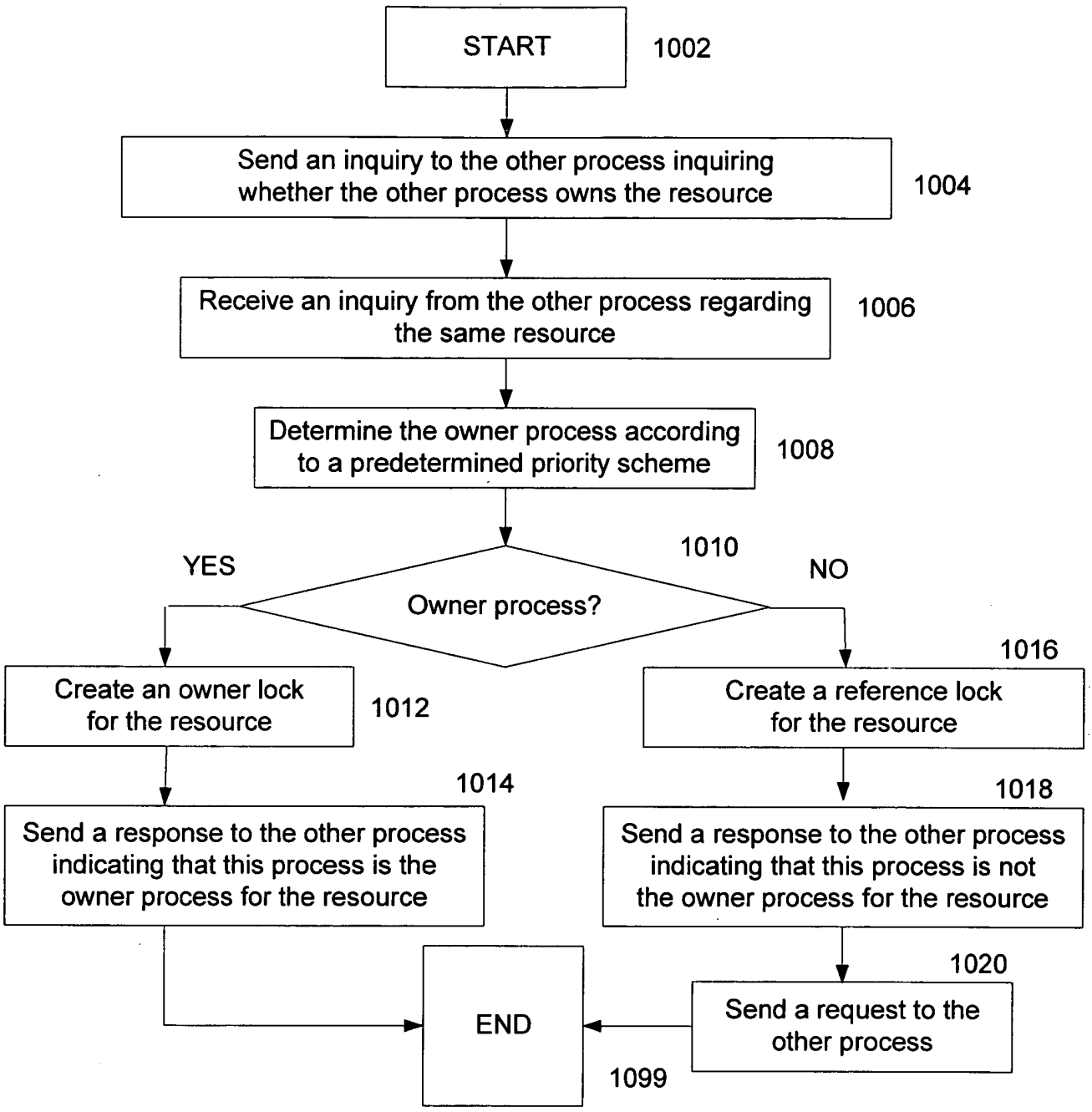

FIG. 10 (1000) - RESOLVING A COLLISION CONDITION

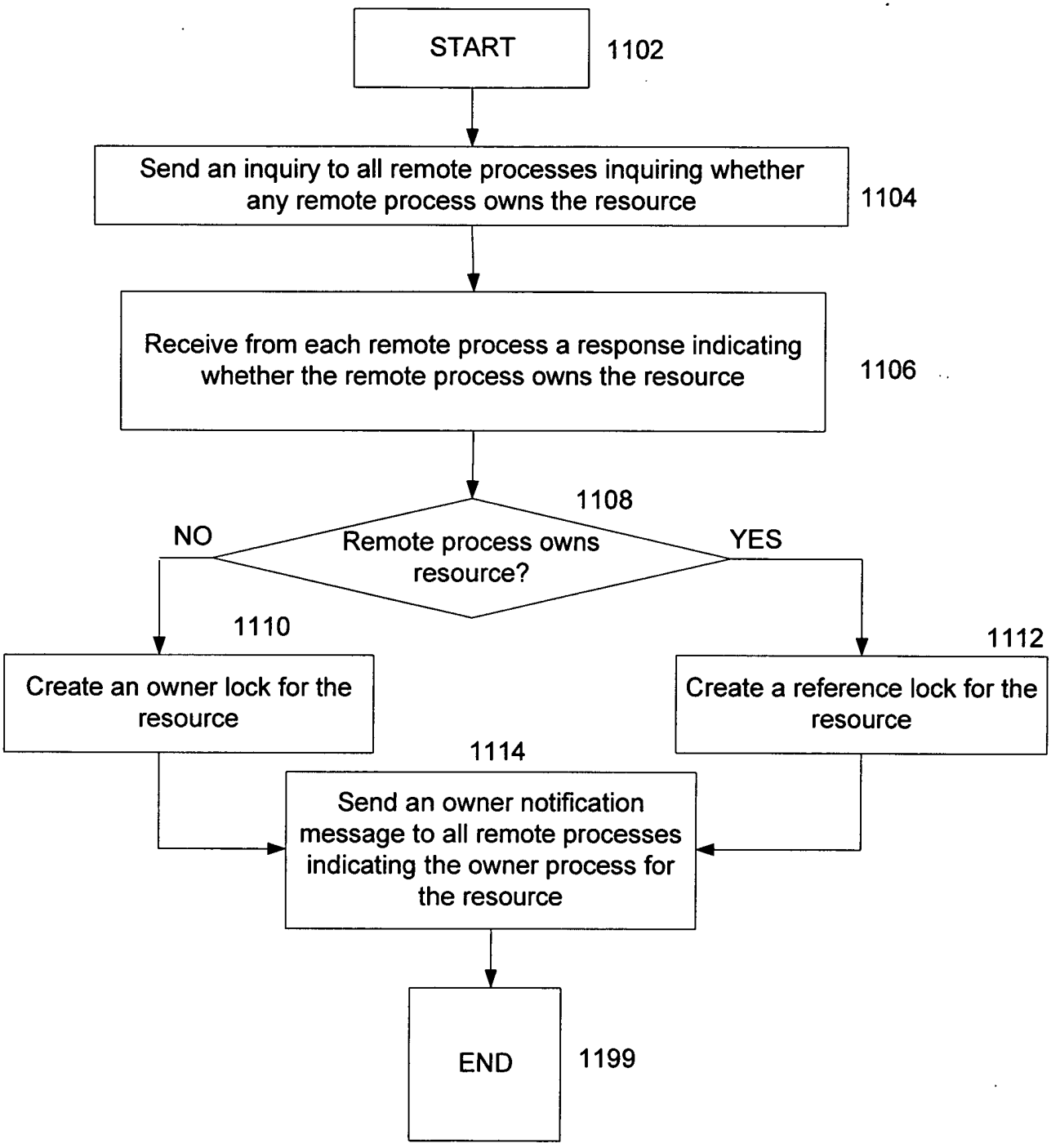

FIG. 11 (1100) - EXPLICIT NOTIFICATION MECHANISM TO DETERMINE OWNER

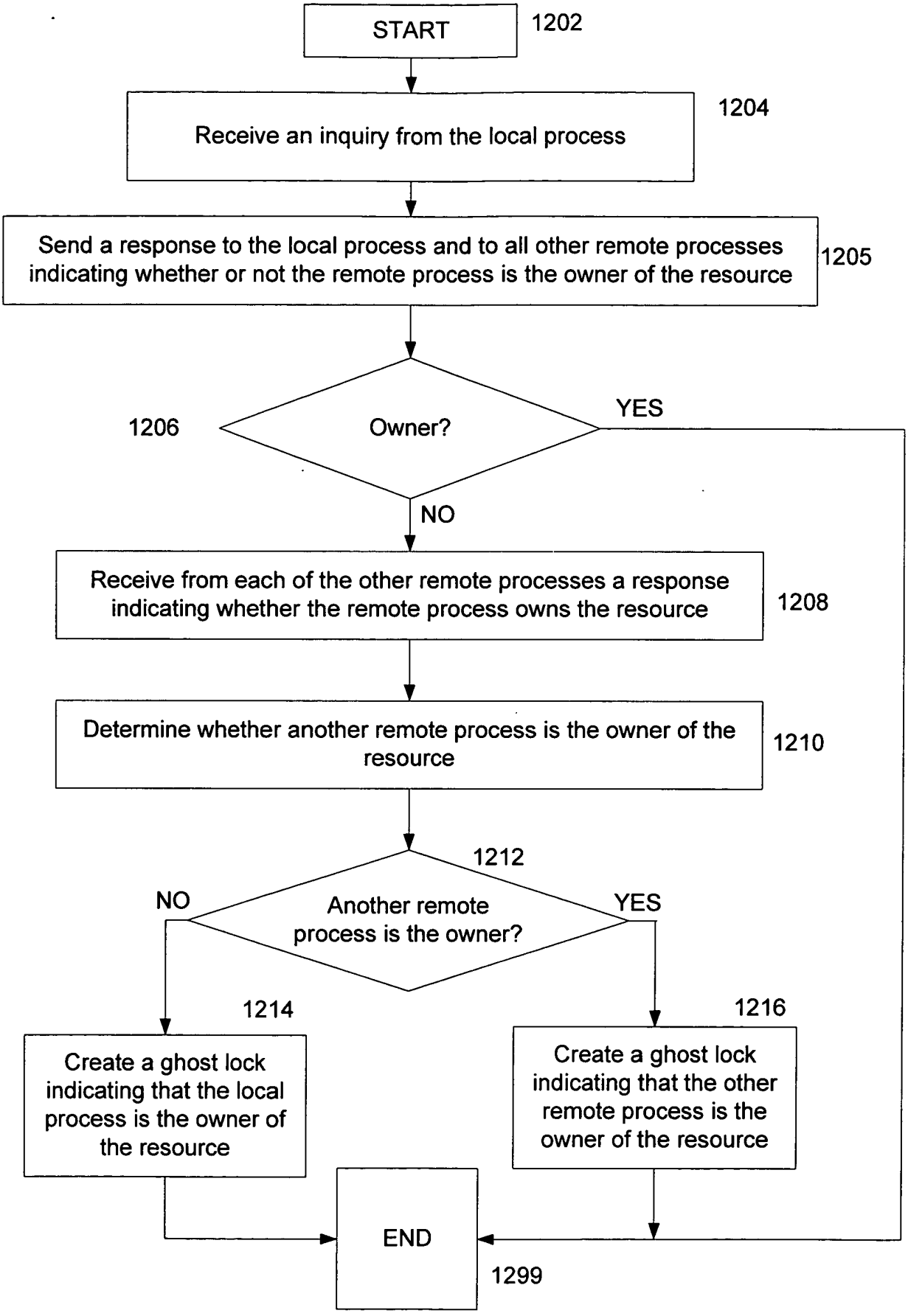

FIG. 12 (1200) - IMPLICIT MECHANISM TO DETERMINE OWNER

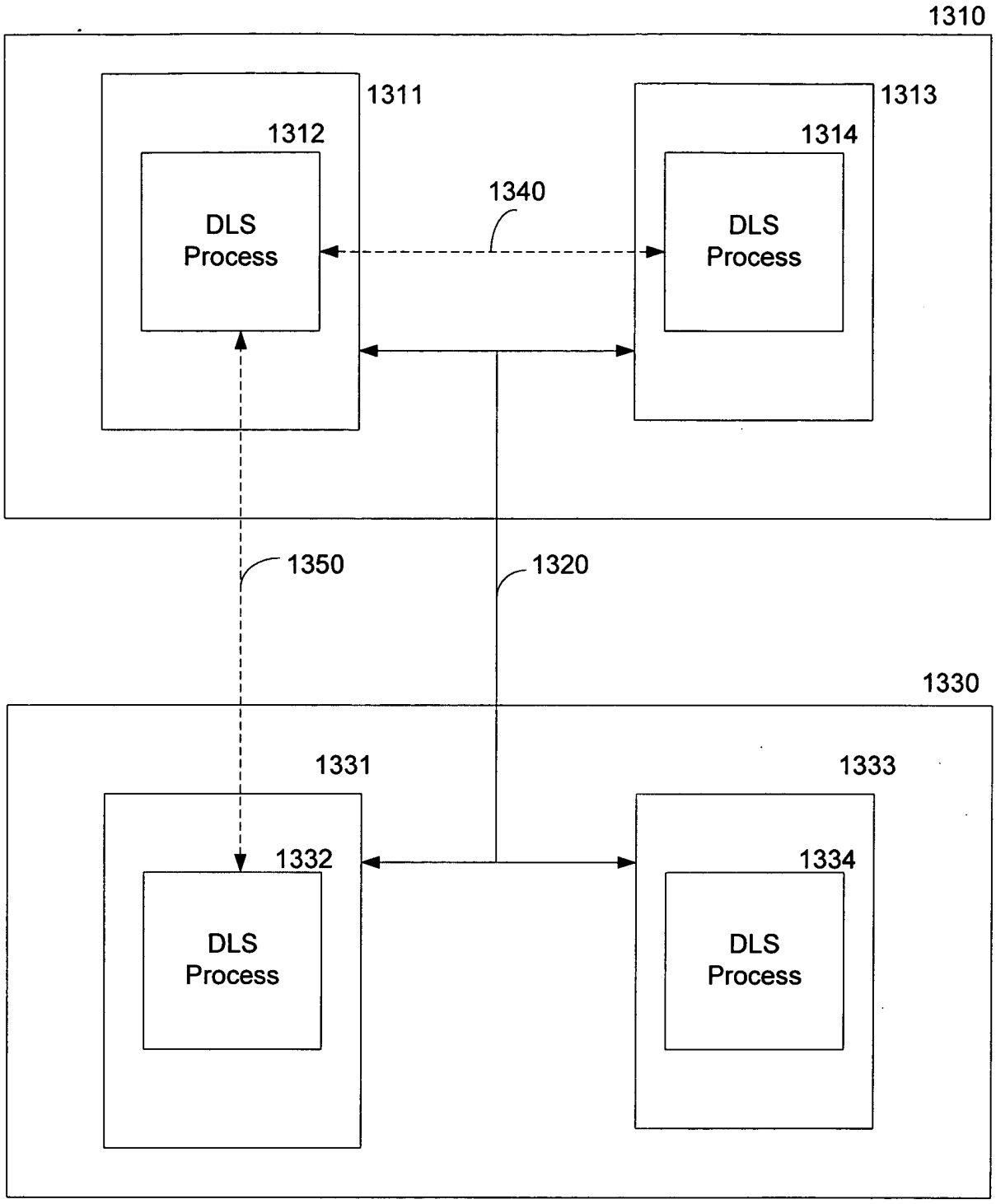
1310
1311
1312
DLS Process
1340
1313
1314
DLS Process
1350
1320
1330
1331
1332
DLS Process
1333
1334
DLS Process

FIG. 13 (1300)

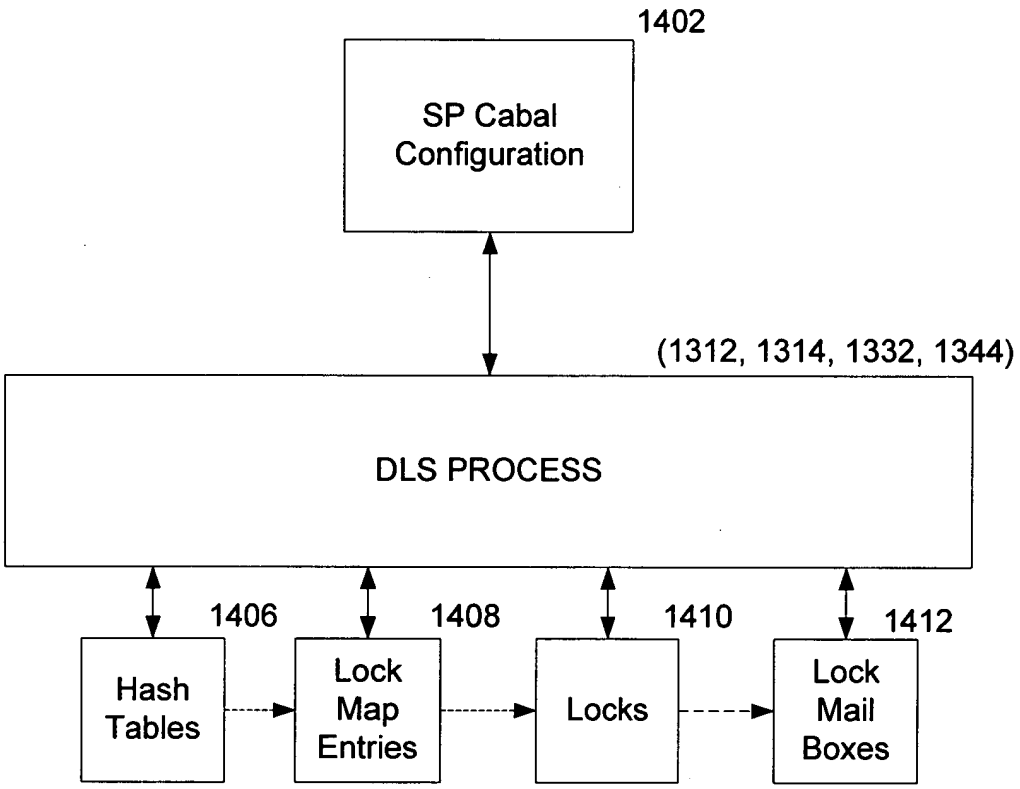
1402
SP Cabal Configuration
(1312, 1314, 1332, 1344)
DLS PROCESS
1406
1408
1410
1412
Hash Tables
Lock Map Entries
Locks
Lock Mail Boxes

FIG. 14

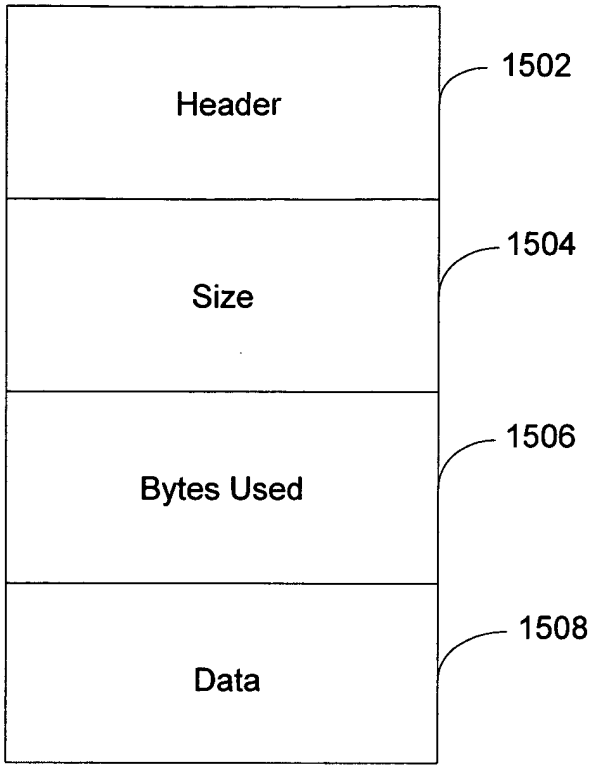

FIG. 15 (1500) - LOCK MAILBOX DATA STRUCTURE

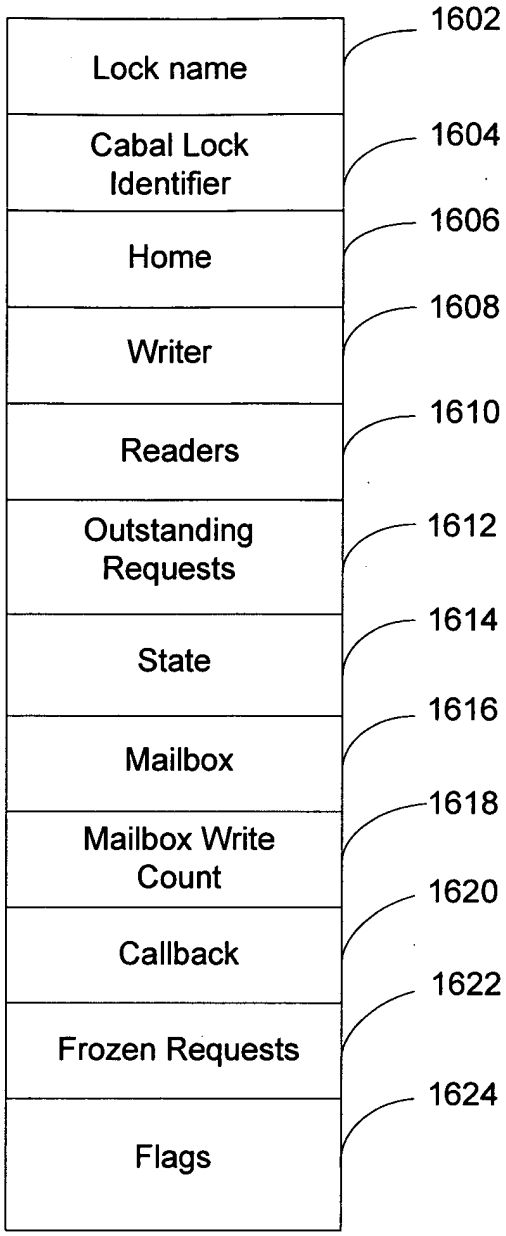

FIG. 16 (1600) - LOCK DATA STRUCTURE

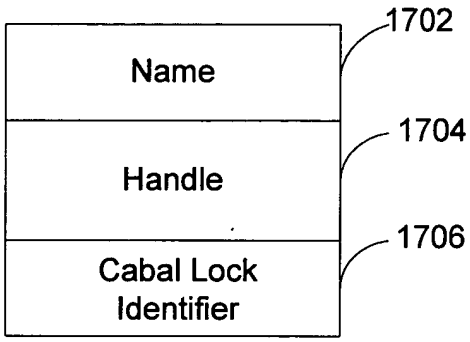

FIG. 17 (1700) - LOCK MAP ENTRY DATA STRUCTURE

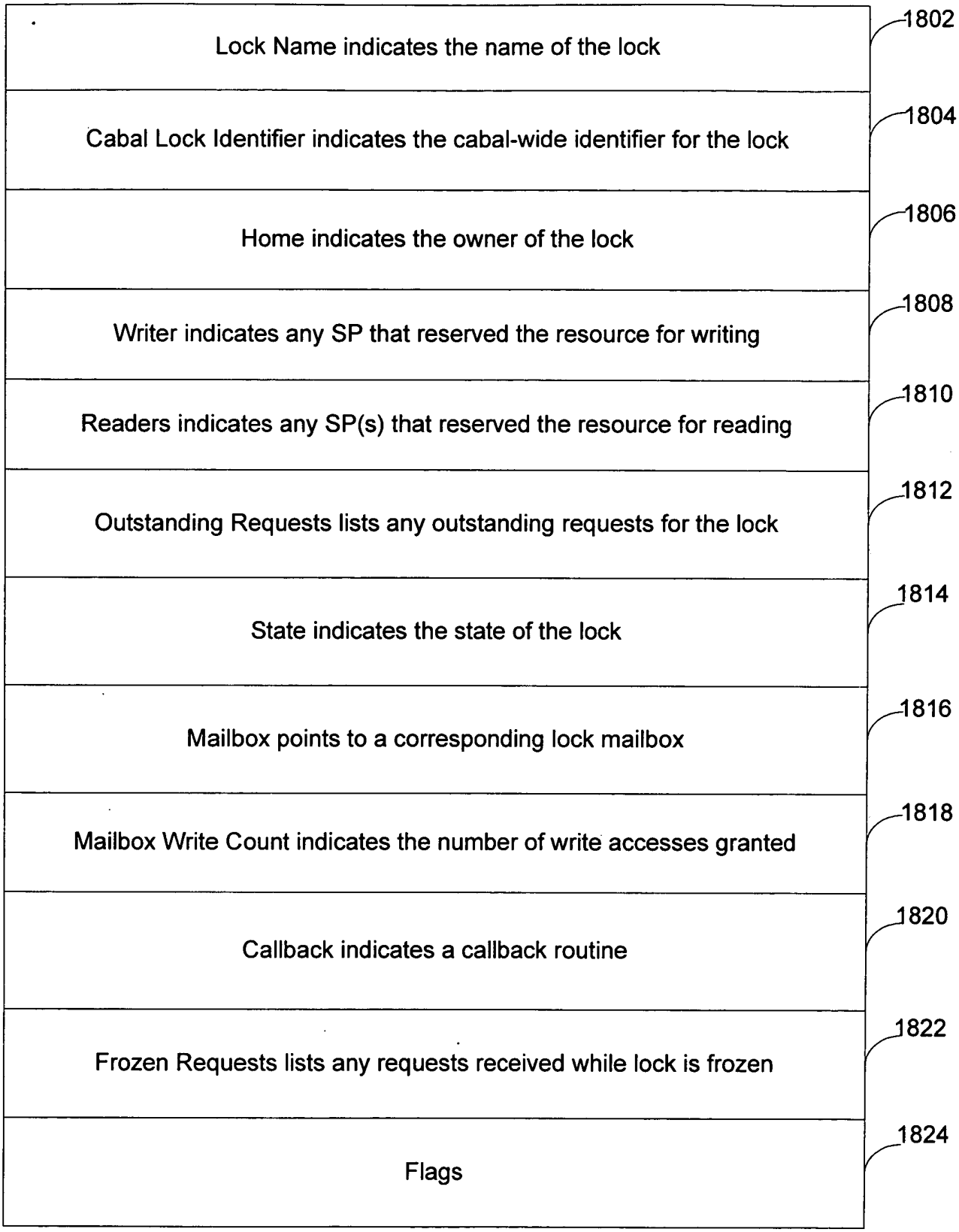

FIG. 18 (1800) - OWNER-REFERENCE LOCK

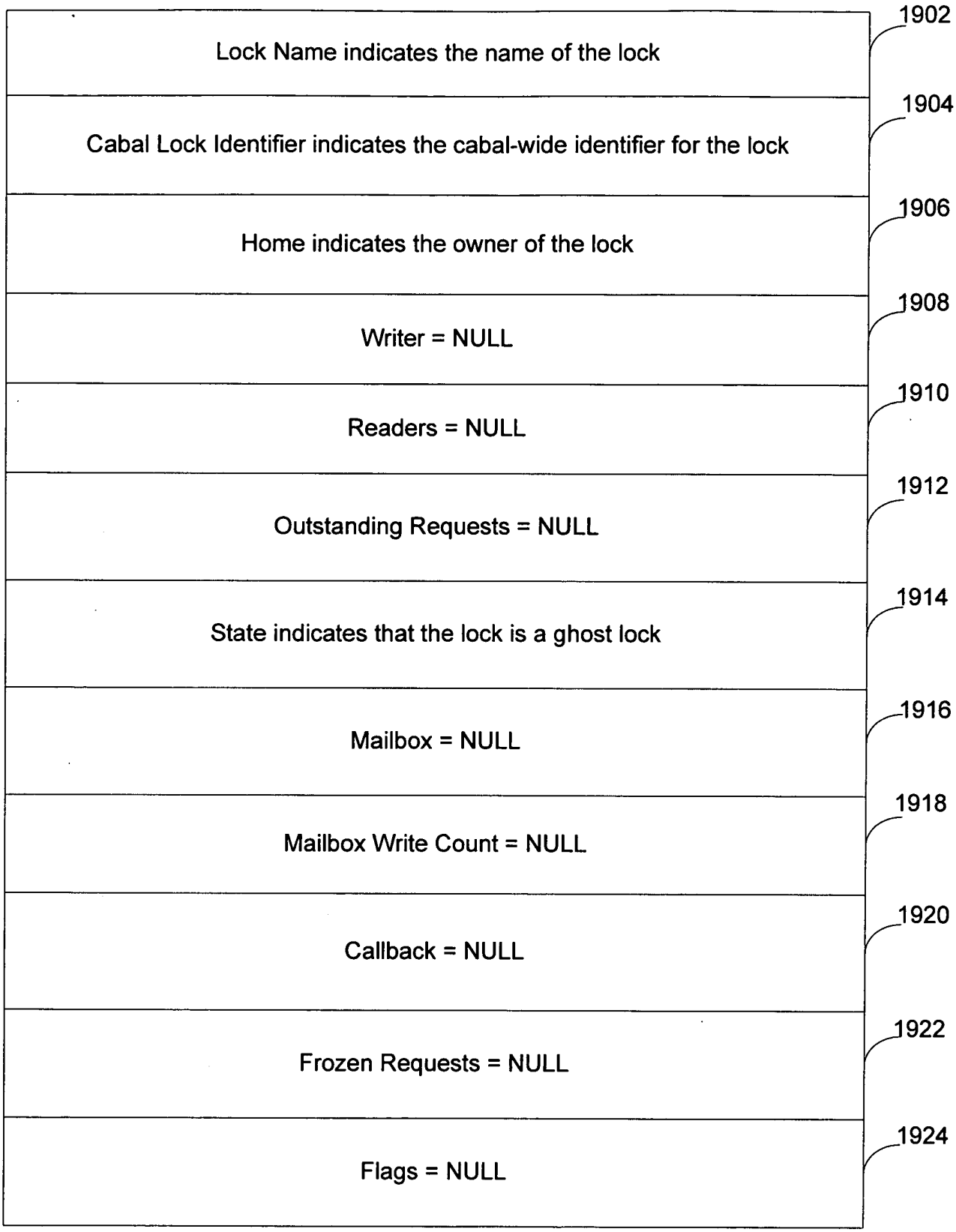

FIG. 19 (1900) - GHOST LOCK